Amendment dated October 11, 2007 Reply to Office Action of July 24, 2007

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A face identification device comprising:

detection means for detecting face images from human body original images

taken by a camera;

storage means in which a face image of a eriminal suspect specific person is

previously or subsequently stored;

determination means for determining whether a face image detected by the detection means matches with the face image stored previously or subsequently in

the storage means by comparing both face images; and

abstraction <u>process</u> means for applying an abstraction process to a face image <del>of a</del> non-criminal suspect out of the face images detected by the detection means from

the original images in order to make the face image of the non-criminal suspect

unrecognizable,

the abstraction process means applying the abstraction process exclusively to a detected

face image when the determination means determines that the detected face image is not a eriminal suspect specific person, and not applying the abstraction process to a detected

face image when the determination means determines that the detected face image is a

eriminal suspect specific person, wherein

the storage means stores the original image abstracted by the abstraction process

means,

when a <u>new</u> face image is stored in the storage means subsequently, the abstraction means restores to the original <del>human body images taken by the camera</del>

image abstracted by the abstraction process means in the storage means,

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the detection means detects face images from the <u>restored</u> original <del>human body</del> images image, and

the determination means determines whether a face image in the restored original image detected by the detection means matches with the new face image stored subsequently in the storage means by comparing both face images and displays a determination result

(Previously Presented) The face identification device according to claim 1, wherein said abstraction process is a mosaic process for making a face image portion mosaic.

(Currently Amended) The face identification device according to claim 1 or 2, wherein
when said determination means determines that the detected face image is a eriminal
suspect specific person, a detected face image is not applied with the abstraction process
and is applied with a marker.

4. (Currently Amended) The face identification device according to claim 1 or 2 or 3, wherein when a face image detected by said detection means is determined to match with the face image stored in said storage means, the image of the eriminal suspect specific person which is not applied with the abstraction process on the face and remaining parts thereof and the images of people other than the eriminal suspect specific person which are applied with the abstraction process exclusively on the faces thereof are displayed, and a warning is also outputted.

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5. (Currently Amended) A face identification method comprising the steps of:

detecting face images from human body original images taken by a camera:

determining whether a detected face image matches with a previously stored face image of a eriminal suspect specific person by comparing both face images;

applying an abstraction process exclusively to a detected face image in order to make the detected face image unrecognizable, when it is determined that the detected face image is not a eriminal suspect specific person;

not applying the abstraction process to the detected face image when it is determined that the detected face image is a eriminal suspect specific person;

when a face image is stored subsequently, restoring the original human body images taken by the camera;

detecting face images from the <u>restored</u> original <del>human body</del> images; and determining whether a face image <u>from the restored original images</u> matches with the face image stored subsequently by comparing both face images.

6. (Currently Amended) A face identification system comprising:

at least one video camera for acquiring images of people; and

a face identification device for comparing said acquired images with images of eriminal suspects specific people previously stored in said face identification device to determine whether at least one of said acquired images matches at least one of said stored images of eriminal suspects specific people, if said face identification device determines that said match does not exist, changing said at least one of said acquired images to make said at least one of said acquired images unrecognizable, subsequently storing additional images of eriminal

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suspects specific people in said face identification device, changing said at least one of said acquired images to make said at least one of said acquired images recognizable again, and comparing said recognizable again image with said additional images of eriminal suspects specific people subsequently stored in said face identification device.

7. (Currently Amended) A face identification system comprising:

a computer;

image input circuitry that provides input images to the computer; and

previously stored face image data for a set of at least one registered face of a eriminal suspect specific person,

the computer executing a procedure that includes:

detecting a set of faces in an input image;

for each face in the set of detected faces, comparing it with the previously stored face image data;

if the face does not match any of the set of registered faces of eriminal suspects specific people, making the face unrecognizable in a version of the input image:

after another face image is subsequently stored, making the face recognizable again; and

comparing the another face image subsequently stored with the recognizable again face image.

 (Previously Presented) The system of claim 7 in which the computer makes the face unrecognizable by applying a mosaic process.

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9. (Previously Presented) The system of claim 7 in which the procedure further includes

storing the version of the input image.

10. (Previously Presented) The system of claim 7 in which the input circuitry includes a

digital camera.

11. (Previously Presented) The system of claim 7 in which the input circuitry includes a

scanner.

12. (Previously Presented) A face identification system comprising:

a computer;

stored image version data for a version of an original image in which a face in the

original image has been made unrecognizable; and

stored face image data for a registered face;

said computer executing a procedure that includes:

using the stored image version data to reconstruct the original image;

detecting a set of faces in the reconstructed original image; and

for each face in the set of detected faces, comparing the face with the stored face

image data and if the face matches the stored face image data, providing an

indication of a match,

wherein the stored face image data for a registered face is stored after the face in the

original image has been made unrecognizable.

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13. (Previously Presented) A face image detection method comprising:

detecting a set of faces in input image;

for each face in the set of detected faces, comparing it with previously stored face image data and if the face does not match any of the set of stored image face data,

making the face unrecognizable in a version of the input image; and

for each face in the set of detected faces, comparing it with subsequently stored

face image data.

14. (Previously Presented) A face image detection method comprising:

reconstructing an original image using stored image version data, the stored image

version data being for a version of the original image in which a face in the

original image has been made unrecognizable;

detecting a set of faces in the reconstructed original image; and

for each face in the set of detected faces, comparing it with stored face image data

and if the face matches a registered face, providing an indication of a match,

wherein the stored face image data is stored after the face in the original image has been

made unrecognizable.

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15. (Previously Presented) A face image detection method comprising:

detecting a set of faces in an input image, comparing each face in the set of

detected faces with previously stored face image data;

if a face does not match any of the previously stored image face data, applying a

mosaic process to make the face unrecognizable in a version of the image;

if the face matches previously stored image face data, applying a marker to the face in the version of the image and providing a name of the matching stored

image face data; and storing the version of the image:

when additional face image data is stored subsequently, reversing the mosaic

process to make the face recognizable again; and

comparing the recognizable again face to the additional face image data to determine

whether there is a match.

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